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IADR PROSTHODONTIC ABSTRACT

Accuracy of relined rubber base impression

A. Nayyar and K. E. Thayer. *Medical College of Georgia, Augusta, Ga., and University of Iowa, Iowa City, Iowa*

This study compared the dimensional changes between an impression made according to the manufacturer's directions (Technique I) and the same impression relieved and relined with the syringe material (Technique II). One silicone putty, two silicone and two mercaptan type elastomeric impression materials were investigated. A brass master model simulating a 3 unit bridge with two full veneer crown abutments was made. It was designed to permit vertical and horizontal measurements using a measuring microscope. Five impressions were made according to Technique I. These impressions were poured in die stone at three time intervals; immediately after removal, in one hour, and in 24 hours. The set of five impressions were then relieved and relined with syringe material and impressions of the brass model made at the same time intervals as in Technique I. A total of 150 casts were obtained and quantitative measurements to ±0.0001 inch calculated as a percentage error. The results indicate that: 1) Casts poured immediately after separation are the most accurate for both techniques. 2) The reline technique results in a more accurate cast than the unrelined impression. 3) Second and third pour casts obtained from a relined impression are more accurate than similar casts from an unrelined impression. 4) Time affects the height and diameter inversely. As the time period increases, the resulting dies are shorter and wider.

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